NATION NEEDS MORE NAVY YARDS, SAYS F. D. ROOSEVELT

Assistant Secretary Discusses Plans of Department to Make Best Use of Antiquated Locations drive it 10,000 yards on its death mission, and the cunningly devised double rudders which keep it at a set depth and hold it so that it cannot swerve to the right-or the left. He may, if his ears can stand the din, enter the shops where boilers are consisted and see there the overhead

HEN Germany has only placed to-day some changes would be made. Prior to 1850 it was thought that the range of a cannon would taxies, which are so much larger ured a nation's jurisdiction beyond its laras? Is it to favor the political in- four times- that distance. icrests in the various sections of the "But from the standpoint of ecoountry?"

Frankin D. Roosevelt, Assistant Sec-ectary of the Navy, who at 35 is reties on naval matters.

here," replied Mr. Roosevelt. "The grievance.

"They have there the two great gards on the Weser and the Elbe- reason, nor is it good politics. Wilhelmshaven and Kiel; the latter at

to their western yards, they need no great construction yard on the Baltic, and have there only one naval station with any yard, public or private, in any country."

There is a popular hazy idea that

been taken for private yards, which can in time of need be utilized for national purposes. In an emergency, such as the present conflict, the pri-vate yards alone can probably construct more vessels than the imperial exchequer will pay for.

"England being an island has a greater coast line, but the most widely separated points of the island being about only twenty-four hours sailing. the royal navy yards. Devenport, Portsmouth, Chatham, Rosyth and other smaller yards, afford all the room parade ground on which they are required for repair and construction. The many private yards on the Clyde. the Thames and other waters, considerably larger than the German private yards, give to England the use, in case of need, of many more than the great national yards. Hence four

England four for their never exceed the league which measguns to smash a shipyard at three or

nomics, in which their use for military These were the questions put to necessities is the first factor, the yards

carded as one of the highest authori- tent the distribution of the yards in the first-instance was aided by local "The only reason which justifies the influences; but as only one, Charleston "The only reason which justifies the in 1901, has been constructed since continuous and point 1891, this day and generation need s the military necessity of having it give little concern to that as a present

fact that the entire German seacoast political party advantage, I can say "As to the use of national yards for on the North Sea does not exceed 125 nothing about what may have been miles easily accounts for the small done in other Administrations; but I number of yards on that shore. say emphatically it is not done under this Administration; for it is not good business, which is a sufficiently good

"Comparison between costs of mainthe western terminus of the Kiel tenance of foreign yards and construc-Canal, which makes these yards avail-items in the United States yards reuble for Germany's Baltic fleet. With fleets unfairly upon our management, the invincibly fortified station on Hel- since the American workman demands tgoland guarding the approach to and receives fair pay for his labor; and these harbors, they are perfectly pro-tected. the American manufacturer of ship material and fittings, into whose prod-"On the Baltic coast Germany had uct labor largely enters, obtains corenly to prepare against the naval responding prices. But in efficiency of power of Russia, Norway or Sweden, work and organization the United and since the canal gives easy access States yards will stand comparison

a navy yard is an enclosed space "With these imperial yards and usually near the water, so that ships many private yards the Germans have may moor alongside while something all the bases for naval operations, repairs and new construction which they can possibly require for military pursels, and one, or maybe two, great "Almost every possible place not oc-cupied by an imperial navy yard has arms and multitudinous wire cables,

> -and they are open at suitable hours to public inspection—he will come away with a very different mental picture. He will realize that the place seems unpeopled only because the yards are so large that the buildings and the workmen are not crowded. He will see barracks large enough to furnish roomy accommodations for drilled, and beyond a row of neat and comfortable houses where the comto the yard have quarters for themselves and their families.

the great national yards. Hence yards are ample for all requirements great fireproof storehouses filled with all sorts of non-perishable supplies for The visitor will see row after row of If this Government provided yards the ships with flour and dried applies, of naval bases for every hundred miles | butter and cheese, salt and sugar, dried of its continental seacoast, exclusive peas, beans and canned goods; with of Alaska, it would require about fifty duck suits, cotton suits, cloth uniinstead of the seven first and five sec- forms, pea jackets and sou'westers; ond class yards now scattered at varying intervals along the 5.700 miles of the Atlantic and the Pacific and the chains. In another building he will

repaired and see there the overhead cranes pick up tons of steel and swing them from place to place as a glant would handle a sack of meal. His eyes will rejoice at the sight, in these and that of the United States, why coast line; but now it would be no toust this nation maintain twelve strain upon a dreadnought's 14 inch which an ordinary man, could barely lift, as they beat into shape the forg-ings needed for especial purposes.

He may see the ways where the great 32,000 ton warships are under construction and observe how the cross sections or the plates for sides or deck are raised and held in place while pneumatic riveters hammer home the ten thousands of red hot bolts which



Franklin D. Roosevelt, Assistant Secretary of the Navy.

Gulf of Mexico.

"From the standpoint of economy of production, if not of economics, it is possible that one yard on the Atlantic and one on the Pacific might be suc
and one on the Pacific might be suc
find all sorts of light ordnance, quick find all sorts or light find all sorts of light ordnance, quick find all sorts or light find all possible that one yard on the Atlantic and one on the Pacific mission of the first class yards most of the last century—were to be re
| Possible that one yard on the Atlantic and one yard on the Atlantic to the torpedo nom he will see the successfully operated.

| Puget Sound yard is regarded by the first class yards most of the last century—were to be re
| Puget Sound yard is regarded by the formulate enough to be admitted to the torpedo room he will see the successfully operated.

| Puget Sound yard is regarded by the through the puget Sound yard is regarded by the last of the torpedo room he will see the successfully operated.

| Puget Sound yard is regarded by the complete seed the formulation of the last century—were to be re
| Puget Sound yard is regarded by the complete seed the torpedo room he will see the successfully operated.

| Puget Sound yard is regarded by the last of the bising to look sunder her keel, held in the puget seed the formulation of the last century—were to be re
| Puget Sound yard is regarded by the beast of the busin to the will come to the dry docks and great extentiant of the last century—were to be re
| Puget Sound tracks on which would throw a half ton pro| Submarine, Around these dry docks of the busin to the puget sound tracks on which resting the has walked far enough to be re| Puget Sound yard is regarded by the puget sound yard is regarded by the puget sound tracks on which the puget sound track

steel back and forth.

At the bulkheads are naval ships of all sorts—some in commission, some in repair, some in ordinary—some about to start on a long cruise and some just back from far waters. They

and two second class yards and four represents an expendure of \$13,000,naval stations abroad, on our insular persessions. It also has five coaling the Pacific coast. Mre Island and Government is now constructing there stations, besides eight reservations, Puget Sound, respect by \$20,150,000 oil ships and a supply ship. such as Annapolis, for naval use.

Of the yards called first class, because supplied with the shops, machinery and appliances for construction and heavy repair work. New York, established in 1801, the largest, is fitted to do any kind of work on a naval vessel. It represents from its estabprotection-it lies in the greatest seaport of the country, is conveniently in the centre of a great labor and

Boston, Portsmouth and Norfolk building, and it was only natural that the first national yards should be placed where plenty of timber and ship material could be found and where there were capable shipwrights in plenty. But conditions of nava, war-fare have materially changed since

steel back and forth. Policy Not to Abandon Any But to Put Each to the Uses for Which It Is Best Adapted

are big, they are little, they are fighters, destroyers and supply ships. They are taking on, they are discharging stores. Some are spick and charging stores. Some are spick and which are not reached by deep chanspan, ready for service; some are which are not reachd by deep chan- Golden Gate, nearly thirty miles from

and \$9,668,000.

and is too near the coast for perfect | \$134,250,000, and these me the properties which a former Seretary of the Navy and some of his therents are near railroad lines and waterways, and urging should be abandned, because the work which they ar accomplishing can be done more conomically yards were established in 1800. The Germany are doing. By machinery northeastern coast States at that time cannot be idle without oling to de-were the home of the nation's ship-struction, and all these yeds become aviators and observers who are a military necessity in cas of war, so, as explaned by Mr. Roosevit, the ecohow to maintain them a the least military result. It must e remem- corps. bered also that the Caribben Sea and easily be the arena wher our next naval battles will be fough

This is the way the depriment is working out the problem. Althe first been retained as they were the idea being to fit them, or some of hem, out eventually with everything seeded to construct or repair any so of ship which the Government ma possess. The Government can build nw almost as cheaply as any private yrds, and the chief cause of difference the cost of labor, which is so fixed bylaw that the national yards may nowpay the least average cost on similarwork in as an active yard the Gulf was left the vicinity.

Portsmouth is not really neded for strategic purposes; the approch to it cleared from the machinery and is through a difficult channi which can be dredged and kept i condiutilized as the place where nost of destroyers and submarines, and is the lighter electrical supplies for the equipped to do all manner of repair navy, the small boats and quipage work upon them. It is cheaper to send work upon them. It is cheaper to send the construction and repair of submarines, one of hich is to New Orleans for repairs than to now being built there.

The Washington yard has for a one pounder quick firers, the aero-plane guns and, in short, eventhing the Navai Proving Ground, the Navai for a ship's secondary batteryto the new fourteen inch fifty-five albre station at Newport, where torped guns which will outshoot arthing of their class in the world. There they make cases for fixed arthuni-

covered with red paint and look anything but lovely.

This country has at home, that is on this continent, seven first class and five second class navy yards, besides two naval stations; and one first class.

The Philadelphia was deep chanthe sea, and safe from gunfire or torpedo attack. The depth of water in the channel when it was selected was ample for any vessel of that time (1854), but the great size of the modern but leading the continent of the sea, and safe from gunfire or torpedo attack. The depth of water in the channel when it was selected was ample for any vessel of that time (1854), but the great size of the modern but leading the continent of the sea, and safe from gunfire or torpedo attack. The depth of water in the channel was ample for any vessel of that time (1854), but the great size of the modern but leading to the sea, and safe from gunfire or torpedo attack. The depth of water in the channel was ample for any vessel of that time (1854), but the great size of the modern but leading to the sea, and safe from gunfire or torpedo attack. The depth of water in the channel was ample for any vessel of that time (1854), but the great size of the modern but leading the sea, and safe from gunfire or torpedo attack. The depth of water in the channel was ample for any vessel of that time (1854), but the great size of the modern but leading the sea, and safe from gunfire or torpedo attack. The depth of water in the channel was ample for any vessel of that time (1854), but the great size of the modern but leading the sea, and safe from gunfire or torpedo attack.

represents an expendure of \$13,000, channel, which is now being deepend ooo, and the two firs class yards on to admit vessels of any draught. The

At one time the navy yards at The Washington yed stands in a Charleston, New Orleans and Pensa-The Washington yed stands in a class by itself. It is relly not a navy yard, but a gun factor. It was built in 1800 and has had enended upon it over \$14,000,000.

The second class yals at Charleston, New Orleans and Pensacola were closed, leaving only the small naval stations at Port Royal and Key West for the relief of any of our ships in distress in Southern waters. The valuable machinery and ton (1901) cost \$4,632.00; Pensacola buildings in these stations were designed by \$27.72.000, and New Orleans teriorating and the paved streets were for land, buildings, pub ic works, improvements and machinery installed. (1828), \$7,727,000, and New Orleans overgrown with grass. The Depart-Thus our navy yard exclusive of ment's policy has been to reopen these is incalculable; and although its location from the strategic standpoint is not ideal—it is not on the mainland in the last 115 years cat more than some the scenario of the state of the s

converted into active yards. The navy's need for aeroplanes has recently been the subject of much comment and the Department is now experimenting and testing the varous kinds which have been offered in a few larger yards, as ingland and There must be a place where the hydroaeroplane, which rises from the water, can be tested, where the handle them may be trained; and in all the country there is no place where nomic question to be determined was, conditions are better for these tests than Pensacola, and there the Deoutlay commensurate wit the best partment has stationed the aeronautic

the water approaches to Poama may a shifting bar. It is hardly available easily be the arena where our next for big ships; but it is the best location on the coast between Norfolk and Key West. Destroyers can always enter, so it has been made the place of class yards, except Portsmuth, have, refuge for those boats and has all the special machinery and supplies required for that indispensable class of speed boat; the destroyers in reserve are stationed there. It is easy to se cure a supply of the best cotton goods at Charleston, so the Department has converted some of the older buildings into factories and makes there all the cotton clothing required for the use of the navy.

With the abandonment of Pensacola without a station, so the one at New Orleans was cleaned up, the rust yard put in working order. Very large boats cannot reach it; but it is avail tion only at heavy expense; so it is able for all lighter draught gunboats, Portsmouth, N. H.

In addition to these yards, the Delong time been given over stirely to the manufacture of naval or pance.

There they make everything, ten the Great Lakes, It maintages

LINCOLN MEMORIAL DEDICATED

work went to the building without plan of the city, possessed advantages ment, viewed the progress of the work sufficiently isolated to have dignity, it Banner." As the last note died away pected in the not distant future to be the dedication of the greatest method the chief centre of outdoor assemblage morial to an American was com- in Washington for people on foot as

000-\$600,000 of the amount being purpose." contributed by patriotic citizens and Said Henry Bacon, the New York

nity of the memorial by uplifting it in which each standing alone would effect upon an artificial hill. have."

It is situated on the shore of the Potomac, River, almost at the water's edge, and the site chosen is such that a straight line passing through the Washington Monument and the middle of the Control of of the Capitel would bisect the memo-rial. If streets were cut through Poto-ble and conspicuous from great dismac Park the structure would be ex- tances. A monumental structure actly seven blocks west of the obelisk standing in a broad plain, surrounded

Washington. is was requested from the National Com- sive in the highest degree. ceeding so quietly that its mission of Fine Arts. The latter body official dedication in the early part of recommended the Potomac Park site this month passed almost without which was finally selected—Capitol notice. The ceremonies in their simplicity were in keeping with the man ington and Arlington being severally Lipcoln, almost, one might imagine, considered, but all three rejected as such as the great emancipator himself less suitable for the purpose.

It was decided that the Potomac The committee in charge of the Park site, in relation to the general brass bands, without wide announce- which no other could claim. While and held a few simple rites. David will be, when the street car line is Bispham stood in the portals of the extended, readily accessible. The park noble, pile, and facing the city of has already become a place of great Washington sang "The Star Spangled popular vehicular resort, and is ex-

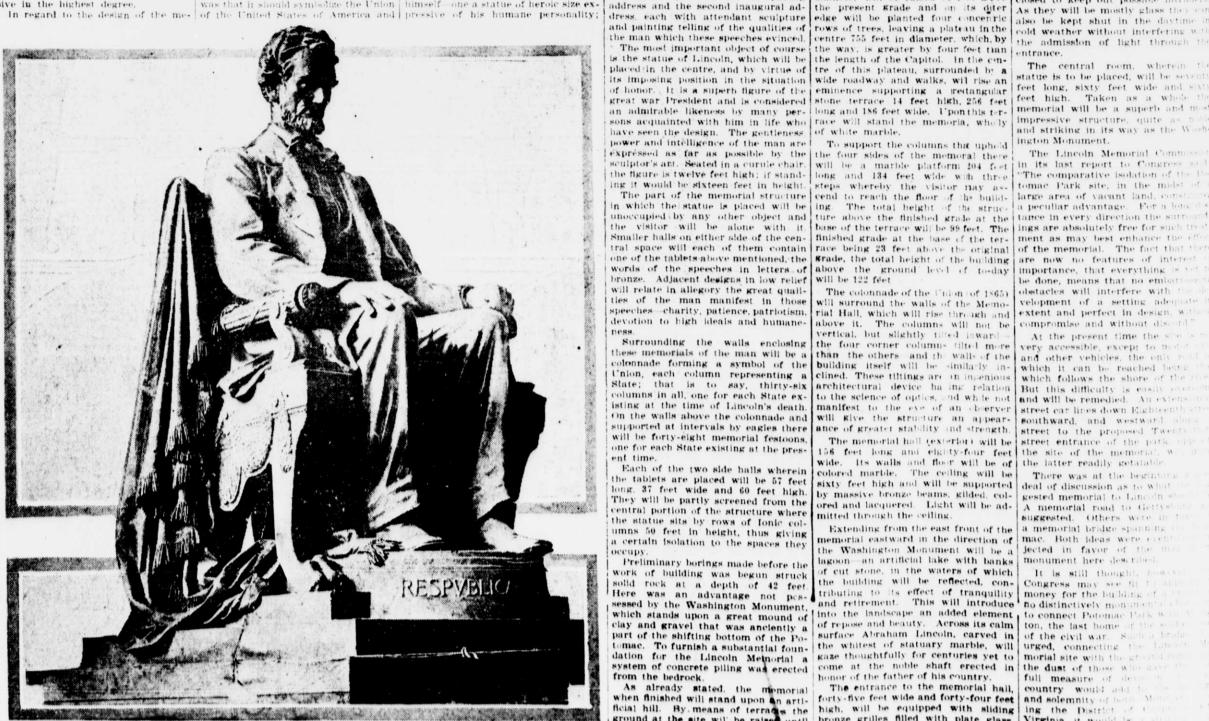
well as in motor cars and carriages. The difficulty of access to the part | John Hay, a former secretary of of Potomac Park selected for the Lincoln and one of his foremost biomonument is one reason for the sim-plicity of the exercises and explains Lincoln of all Americans next to why, although the work has been pro- Washington deserves this place of ceeding for several years, few visitors honor. He was of the immortals. You to the capital see the memorial and must not approach too close to the dis importance as an architectural immortals. His monument should structure is by no means generally stand alone, remote from the common realized. Comparable to the Wash- habitations of man, apart from the ington Monument in point of impress business and turmoil of the city-isosiveness, it will cost \$700,000 more lated, distinguished and serene. Of all than the latter. The giant obelisk the sites suggested this one overlookwas built at a total expense of \$1,300,- ing the Potomac is best suited to the

the balance for its completion after a architect selected to build the memolapse of thirty years furnished by rial; "On the great axis, planned over Congress. The national Government will pay \$2,000,000 outright for the Lincoln memorial. Government; and to the west, over a The memorial is expected to be fin- mile distant, is the monument to ished within two years from the pres- Washington, one of the founders of ent date. Already the foundation of the Government. If the Lincoln granite is complete and the white memorial is built on this same axis, marble walls are partly up, with portions of some of the stately columns of the Potomac, we shall there have in place. As one sees the structure the morament of the man who saved -day the first story of its height the Government-thus completing an represents the foundation, which later unparalleled composition which can-on will be covered up, the raising not fail to impart to each of its monuof the grade contributing to the dig- ments a value in addition to that

ted in honor of the Father of His by an amphitheatre of hills, is as widely seen and as effective to the eye Country.

Congress in February, 1911, created a commission "to procure and determine upon a location, plan and design" for a Lincoln memorial. William H. Lincoln Memorial beheld in association

HE work of erecting the beauti- Taft was chosen to preside over its de- with the Washington Monument and fal Lincoln memorial in Poto- liberations, and advice on the subject may Park. Washington is was requested from the National Com- sive in the high approval of the commission, himself—one a statue of heroic size ex- address and the second inaugural ad- the present grade and on its diter. With the Washington Monument and morial. Mr. Bacon's idea, which met include in the walls and at night with the dome of the Capitol will be impressible introduction. In the high approval of the commission, was that it should symbolize the Union himself—one a statue of heroic size ex- address and the second inaugural ad- the present grade and on its diter.



The statue of Lincoln that is to adorn the Memorial.

of honor. It is a superb figure of the eminence supporting a westangular great war President and is considered stone terrace 14 feet high, 256 feet an admirable likeness by many per- long and 186 feet wide. Upon this tersons acquainted with him in life who race will stand the memoria, wholly have seen the design. The gentleness of white marble. expressed as far as possible by the the four sides of the memoral there

one of the tablets above mentioned, the grade, the total height of the building are now no features of interest words of the speeches in letters of above the ground level of to-day bronze. Adjacent designs in low relief will be 122 feet will relate in allegory the great qualities of the man manifest in those will surround the walls of the Memospeeches charity, patience, patriotism. rial Hall, which will rise through and extent and perfect in design, we devotion to high ideals and humane- above it. The columns will not be compromise and without discord

On the walls above the colonnade and will give the structure an appear- southward, and westward supported at intervals by eagles there ance of greater stability and strength. will be forty-eight memorial festoons.

Each of the two side halls wherein the tablets are placed will be 57 feet long, 37 feet wide and 60 feet high. They will be partly screened from the central portion of the structure where mitted through the ceiling. the statue sits by rows of Ionic columns 50 feet in height, thus giving a certain isolation to the spaces they occupy.

ficial hill. By means of terrades the ground at the site will be raised until the floor of the building is 4 feet higher than the original grade evel. These grilles during the day will be bol of reunion between this property of the building is 4 feet or of the building is 4 fe

address and the second inaugural ad- the present grade and on its diter As they will be mostly glass they of the man which these speeches evinced, centre 755 feet in diameter, which, by the admission of light through the The most important object of course the way, is greater by four feet tian entrance, is the statue of Lincoln, which will be the length of the Capitol. In the conplaced in the centre, and by virtue of tre of this plateau, surrounded by a its imposing position in the situation wide roadway and walks, wil rise an

power and intelligence of the man are To support the columns that uphold sculptor's ant. Seated in a curule chair, will be a marble platform 204 feet the figure is twelve feet high; if stand- long and 134 feet wide with three ing it would be sixteen feet in height, steps whereby the visitor may as-The part of the memorial structure | cend to reach the floor of the build- large area of vacant land, conin which the statue is placed will be ing. The total height of the struc- a peculiar advantage. For a long unoccupied by any other object and ture above the finished grade at the tance in every direction the surthe visitor will be alone with it base of the terrace will be 99 feet. The ings are absolutely free for such Smaller halls on either side of the cen- finished grade at the base of the tertral space will each of them contain race being 23 feet above the original of the memorial. The fact that

The colonnade of the Union (of 1865) vertical, but slightly tilted inward Surrounding the walls enclosing the four corner columns tilted more these memorials of the man will be a than the others and the walls of the and other vehicles, the only colonnade forming a symbol of the building itself will be similarly in-Union, each column representing a clined. These tiltings are in insenious State; that is to say, thirty-six architectural device ha ing relation But this difficulty is easily columns in all, one for each State ex- to the science of optics, and while not isting at the time of Lincoln's death. manifest to the eye of an observer street car lines down Eighteen

The memorial hall (exterior) will be street entrance of the park. one for each State existing at the pres- 156 feet long and eighty-four feet the site of the memorial, w wide. Its walls and floor will be of the latter readily getatable colored marble. The ceiling will be There was at the beginning sixty feet high and will be supported deal of discussion as to what by massive bronze beams, gilded, col- gested memorial to Lancoln ored and lacquered. Light will be ad- A memorial road to Getty's

Extending from the east front of the a memorial bridge spanning memorial eastward in the direction of mac. Both ideas were ever the Washington Monument will be a jected in favor of the Preliminary borings made before the work of building was begun struck solid rock at a depth of 42 feet. Here was an advantage not possessed by the Washington Monument. sessed by the Washington Monument, which stands upon a great mound of clay and gravel that was anciently a part of the shifting bottom of the Poomac. To furnish a substantial foun- the whitest of statuary marble, will urged, dation for the Lincoln Metnorial a gaze thoughtfully for centuries yet to morial site with the g system of concrete piling was erected come at the noble shaft erected in the dust of those with the bedrock.

As already stated, the memorial when finished will stand upon an arti-The entrance to the memorial hall, country would add

closed to keep out possible intrudet

The central room, wherein the statue is to be placed, will be seven feet long, sixty feet wide and six feet high. Taken as a whole memorial will be a superb and me impressive structure, quite a and striking in its way as the Washington Monument.

The Lincoln Memorial Comp. in its last report to Congress s The comparative isolation of the l tomac Park site, in the midst ment as may best enhance the importance, that everything is a be done, means that no embar obstacles will interfere with velopment of a setting adeq

At the present time the slwhich it can be reached b which follows the shore of the and will be remedied. street to the proposed Twen

suggested. Others were in

full measure of de